



Directional Survey

30-025-41716

Well Name: WEISSBEIR 23-2H

Sub-Division DELAWARE BASIN WEST		Region SLOPE EAST		Field Name WEIHEN		County LEA		State/Province NM					
Surface Legal Location Sec. 14 T17S R37E		API/UWI 3002541716		Latitude (°) 32° 49' 41.57" N		Longitude (°) 103° 13' 3.966" W		Orig KB Elevation (ft) 3,755.30		Ground Elev MSL (ft) 3,728.80		KB - GL (ft) 26.50	
Wellbores													
Wellbore Name OH		Parent Wellbore				SAP Well ID 37452				Vertical Section Direction (°) HOBBS OGD			
Kick Offs & Key Depths													
Date				Type				Top Depth (ftKB) OCT 01 2015					
Actual Deviation Survey MWD, Proposed? No				Definitive? Yes		Proposed? No		Proposed Deviation Survey					
Deviation Survey													
Date 11/11/2014		Description MWD RECEIVED											
MD Tie In (ftKB)		TVD Tie In (ftKB)		Inclination Tie In (°)		Azimuth Tie In (°)		NSTie In (ft)		EWTie In (ft)			
Survey Data													
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company			
11/23/2...									MWD	PATHFINDER ENERGY SE...			
11/16/2...	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD	EXTREME			
11/11/2...	131.31	1.01	239.54	131.30	0.45	-0.59	-1.00	0.77	MWD	EXTREME			
11/11/2...	253.31	1.19	123.61	253.29	1.70	-1.83	-0.87	1.53	MWD	EXTREME			
11/11/2...	318.31	0.70	112.54	318.28	2.35	-2.36	0.06	0.80	MWD	EXTREME			
11/11/2...	380.31	0.70	130.34	380.28	2.82	-2.75	0.70	0.35	MWD	EXTREME			
11/11/2...	471.09	1.01	123.04	471.05	3.75	-3.54	1.79	0.36	MWD	EXTREME			
11/11/2...	562.00	1.10	133.72	561.94	4.96	-4.58	3.09	0.24	MWD	EXTREME			
11/11/2...	653.00	0.88	157.32	652.93	6.32	-5.83	3.99	0.50	MWD	EXTREME			
11/11/2...	744.00	1.01	160.83	743.92	7.78	-7.24	4.53	0.16	MWD	EXTREME			
11/11/2...	836.00	1.10	151.21	835.90	9.40	-8.78	5.22	0.22	MWD	EXTREME			
11/11/2...	927.00	1.01	169.84	926.89	11.02	-10.33	5.78	0.39	MWD	EXTREME			
11/12/2...	1,019.00	1.10	179.73	1,018.87	12.70	-12.01	5.93	0.22	MWD	EXTREME			
11/12/2...	1,108.00	1.32	182.94	1,107.85	14.56	-13.89	5.88	0.26	MWD	EXTREME			
11/12/2...	1,199.00	1.01	181.53	1,198.83	16.38	-15.74	5.80	0.34	MWD	EXTREME			
11/12/2...	1,291.00	0.88	184.34	1,290.82	17.87	-17.25	5.73	0.15	MWD	EXTREME			
11/12/2...	1,381.00	0.88	189.44	1,380.81	19.20	-18.62	5.56	0.09	MWD	EXTREME			
11/12/2...	1,472.00	1.01	192.04	1,471.80	20.63	-20.10	5.28	0.15	MWD	EXTREME			
11/12/2...	1,564.00	0.79	193.44	1,563.78	21.98	-21.51	4.97	0.24	MWD	EXTREME			
11/12/2...	1,658.00	1.10	183.25	1,657.77	23.47	-23.04	4.76	0.37	MWD	EXTREME			
11/12/2...	1,752.00	0.79	186.15	1,751.76	24.98	-24.58	4.64	0.33	MWD	EXTREME			
11/12/2...	1,846.00	0.70	183.25	1,845.75	26.18	-25.80	4.54	0.10	MWD	EXTREME			
11/12/2...	1,940.00	0.62	172.13	1,939.74	27.25	-26.88	4.58	0.16	MWD	EXTREME			
11/12/2...	2,034.00	0.70	189.05	2,033.74	28.31	-27.95	4.56	0.22	MWD	EXTREME			
11/12/2...	2,128.00	0.48	189.22	2,127.73	29.23	-28.90	4.40	0.23	MWD	EXTREME			
11/12/2...	2,199.00	0.40	260.24	2,198.73	29.53	-29.24	4.11	0.73	MWD	EXTREME			
11/12/2...	2,202.00	0.40	225.35	2,201.73	29.53	-29.25	4.09	7.99	MWD	EXTREME			
11/12/2...	2,293.00	0.31	208.25	2,292.73	29.92	-29.69	3.75	0.15	MWD	EXTREME			
11/12/2...	2,386.00	0.31	192.74	2,385.73	30.36	-30.16	3.58	0.09	MWD	EXTREME			
11/12/2...	2,482.00	0.22	193.84	2,481.73	30.78	-30.59	3.48	0.09	MWD	EXTREME			
11/12/2...	2,574.00	0.22	251.32	2,573.73	30.98	-30.82	3.27	0.23	MWD	EXTREME			
11/12/2...	2,669.00	0.09	230.14	2,668.73	31.05	-30.92	3.04	0.15	MWD	EXTREME			
11/12/2...	2,763.00	0.09	25.92	2,762.73	31.03	-30.90	3.01	0.19	MWD	EXTREME			
11/12/2...	2,857.00	0.22	64.02	2,856.73	30.91	-30.76	3.21	0.17	MWD	EXTREME			
11/12/2...	2,951.00	0.40	105.02	2,950.73	30.98	-30.76	3.69	0.29	MWD	EXTREME			
11/16/2...	3,045.00	0.22	76.24	3,044.72	31.09	-30.81	4.18	0.25	MWD	EXTREME			
11/16/2...	3,140.00	0.62	90.92	3,139.72	31.15	-30.77	4.87	0.43	MWD	EXTREME			
11/16/2...	3,238.00	0.62	78.74	3,237.72	31.19	-30.68	5.92	0.13	MWD	EXTREME			
11/16/2...	3,332.00	0.48	69.21	3,331.71	31.07	-30.44	6.79	0.18	MWD	EXTREME			
11/16/2...	3,426.00	0.70	70.22	3,425.71	30.87	-30.10	7.69	0.23	MWD	EXTREME			
11/16/2...	3,520.00	0.88	64.73	3,519.70	30.53	-29.60	8.89	0.21	MWD	EXTREME			
11/16/2...	3,614.00	1.10	57.52	3,613.68	29.93	-28.81	10.30	0.27	MWD	EXTREME			
11/17/2...	3,709.00	1.10	58.05	3,708.67	29.18	-27.84	11.84	0.01	MWD	EXTREME			
11/17/2...	3,803.00	1.10	44.95	3,802.65	28.26	-26.72	13.25	0.27	MWD	EXTREME			
11/17/2...	3,896.00	1.10	44.82	3,895.63	27.18	-25.45	14.51	0.00	MWD	EXTREME			
11/17/2...	3,991.00	1.32	46.62	3,990.61	25.99	-24.06	15.95	0.23	MWD	EXTREME			
11/17/2...	4,081.00	1.41	45.74	4,080.58	24.72	-22.57	17.49	0.10	MWD	EXTREME			
11/17/2...	4,174.00	1.32	33.92	4,173.56	23.24	-20.88	18.91	0.32	MWD	EXTREME			
11/17/2...	4,268.00	1.19	37.22	4,267.54	21.74	-19.21	20.10	0.16	MWD	EXTREME			
11/17/2...	4,362.00	1.41	31.15	4,361.51	20.15	-17.44	21.29	0.28	MWD	EXTREME			
11/17/2...	4,456.00	1.32	39.55	4,455.48	18.52	-15.62	22.58	0.23	MWD	EXTREME			
11/17/2...	4,550.00	1.19	35.94	4,549.46	17.08	-13.99	23.84	0.16	MWD	EXTREME			
11/17/2...	4,645.00	1.19	44.34	4,644.44	15.76	-12.49	25.11	0.18	MWD	EXTREME			
11/17/2...	4,738.00	1.10	31.02	4,737.42	14.47	-11.03	26.25	0.30	MWD	EXTREME			
11/17/2...	4,833.00	1.19	31.63	4,832.40	13.00	-9.41	27.23	0.10	MWD	EXTREME			
11/17/2...	4,927.00	0.88	32.12	4,926.39	11.69	-7.97	28.13	0.33	MWD	EXTREME			
11/17/2...	5,021.00	1.10	26.23	5,020.37	10.39	-6.55	28.91	0.26	MWD	EXTREME			
11/18/2...	5,115.00	0.88	15.55	5,114.36	8.97	-5.04	29.50	0.30	MWD	EXTREME			
11/18/2...	5,209.00	1.10	19.42	5,208.35	7.51	-3.50	30.00	0.24	MWD	EXTREME			
11/20/2...	5,458.00	0.97	21.38	5,457.31	3.54	0.72	31.56	0.05	MWD	PATHFINDER ENERGY SE...			
11/20/2...	5,552.00	2.11	46.01	5,551.27	1.82	2.66	33.09	1.38	MWD	PATHFINDER ENERGY SE...			
11/20/2...	5,646.00	2.11	44.23	5,645.21	-0.27	5.11	35.55	0.07	MWD	PATHFINDER ENERGY SE...			



Directional Survey

Well Name: WEISSBEIR 23-2H

Sub-Division		Region		Field Name		County		State/Province							
DELAWARE BASIN WEST		SLOPE EAST		WEIHEN		LEA		NM							
Surface Legal Location		API/UWI		Latitude (°)		Longitude (°)		Orig KB Elevation (ft)		Ground Elev MSL (ft)		KB - GL (ft)			
Sec. 14 T17S R37E		3002541716		32° 49' 41.57" N		103° 13' 3.966" W		3,755.30		3,728.80		26.50			
Survey Data															
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company					
11/20/2...	5,740.00	2.81	60.29	5,739.12	-2.19	7.49	38.76	1.04	MWD	PATHFINDER ENERGY SE...					
11/21/2...	5,834.00	4.31	58.32	5,832.94	-4.49	10.48	43.76	1.60	MWD	PATHFINDER ENERGY SE...					
11/21/2...	5,928.00	5.28	64.31	5,926.61	-7.25	14.21	50.67	1.16	MWD	PATHFINDER ENERGY SE...					
11/21/2...	6,022.00	5.36	62.98	6,020.20	-10.03	18.08	58.48	0.16	MWD	PATHFINDER ENERGY SE...					
11/21/2...	6,116.00	5.98	70.35	6,113.74	-12.49	21.73	67.00	1.02	MWD	PATHFINDER ENERGY SE...					
11/21/2...	6,210.00	6.07	67.89	6,207.23	-14.74	25.24	76.21	0.29	MWD	PATHFINDER ENERGY SE...					
11/21/2...	6,304.00	5.72	67.35	6,300.73	-17.17	28.92	85.14	0.38	MWD	PATHFINDER ENERGY SE...					
11/21/2...	6,398.00	5.80	65.57	6,394.25	-19.74	32.69	93.79	0.21	MWD	PATHFINDER ENERGY SE...					
11/21/2...	6,493.00	5.63	63.10	6,488.78	-22.65	36.78	102.31	0.31	MWD	PATHFINDER ENERGY SE...					
11/21/2...	6,587.00	5.80	60.83	6,582.31	-25.89	41.18	110.57	0.30	MWD	PATHFINDER ENERGY SE...					
11/22/2...	6,681.00	5.89	66.51	6,675.83	-28.94	45.42	119.15	0.62	MWD	PATHFINDER ENERGY SE...					
11/23/2...	6,775.00	5.63	69.59	6,769.35	-31.26	48.95	127.89	0.43	MWD	PATHFINDER ENERGY SE...					
11/23/2...	6,869.00	5.10	71.95	6,862.94	-33.01	51.85	136.18	0.61	MWD	PATHFINDER ENERGY SE...					
11/23/2...	6,963.00	5.63	63.41	6,956.53	-35.25	55.21	144.28	1.02	MWD	PATHFINDER ENERGY SE...					
11/23/2...	7,057.00	6.16	55.49	7,050.03	-39.01	60.13	152.56	1.03	MWD	PATHFINDER ENERGY SE...					
11/23/2...	7,151.00	5.89	53.00	7,143.51	-43.64	65.89	160.57	0.40	MWD	PATHFINDER ENERGY SE...					
11/23/2...	7,243.00	6.07	60.56	7,235.01	-47.74	71.12	168.57	0.88	MWD	PATHFINDER ENERGY SE...					
11/23/2...	7,339.00	6.07	62.73	7,330.48	-51.31	75.94	177.50	0.24	MWD	PATHFINDER ENERGY SE...					
11/23/2...	7,433.00	5.98	61.65	7,423.96	-54.70	80.54	186.23	0.15	MWD	PATHFINDER ENERGY SE...					
11/24/2...	7,527.00	5.45	59.11	7,517.49	-58.17	85.16	194.37	0.62	MWD	PATHFINDER ENERGY SE...					
11/24/2...	7,621.00	5.36	57.80	7,611.07	-61.75	89.79	201.92	0.16	MWD	PATHFINDER ENERGY SE...					
11/24/2...	7,715.00	5.80	62.94	7,704.63	-65.13	94.29	209.86	0.71	MWD	PATHFINDER ENERGY SE...					
11/24/2...	7,810.00	5.80	62.97	7,799.14	-68.31	98.66	218.41	0.00	MWD	PATHFINDER ENERGY SE...					
11/24/2...	7,904.00	5.80	69.31	7,892.66	-70.94	102.49	227.09	0.68	MWD	PATHFINDER ENERGY SE...					
11/25/2...	7,932.00	5.89	66.12	7,920.52	-71.65	103.58	229.72	1.20	MWD	PATHFINDER ENERGY SE...					
11/25/2...	7,964.00	5.89	71.12	7,952.35	-72.43	104.77	232.78	1.60	MWD	PATHFINDER ENERGY SE...					
11/25/2...	7,995.00	5.89	75.98	7,983.18	-72.91	105.67	235.83	1.61	MWD	PATHFINDER ENERGY SE...					
11/25/2...	8,026.00	5.89	86.41	8,014.02	-72.97	106.16	238.96	3.45	MWD	PATHFINDER ENERGY SE...					
11/25/2...	8,058.00	7.03	108.06	8,045.82	-71.99	105.65	242.46	8.34	MWD	PATHFINDER ENERGY SE...					
11/25/2...	8,089.00	8.27	121.88	8,076.55	-69.75	103.89	246.16	7.13	MWD	PATHFINDER ENERGY SE...					
11/25/2...	8,120.00	8.79	130.72	8,107.21	-66.55	101.16	249.85	4.54	MWD	PATHFINDER ENERGY SE...					
11/25/2...	8,151.00	12.31	130.24	8,137.68	-62.32	97.48	254.16	11.36	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,182.00	15.48	135.02	8,167.77	-56.57	92.42	259.61	10.87	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,213.00	18.29	139.65	8,197.43	-49.18	85.79	265.69	10.04	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,246.00	21.81	148.86	8,228.43	-39.18	76.59	272.21	14.30	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,277.00	24.36	157.56	8,256.96	-27.71	65.74	277.64	13.72	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,309.00	26.64	161.63	8,285.84	-14.27	52.83	282.42	8.98	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,340.00	31.04	162.82	8,312.99	0.45	38.59	286.97	14.31	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,371.00	34.38	166.94	8,339.07	17.06	22.43	291.31	12.94	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,403.00	36.67	170.14	8,365.11	35.61	4.21	294.99	9.22	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,434.00	40.19	173.37	8,389.40	54.87	-14.86	297.73	13.07	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,465.00	44.14	175.63	8,412.37	75.65	-35.56	299.71	13.65	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,496.00	46.17	176.42	8,434.23	97.58	-57.49	301.23	6.79	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,528.00	48.72	175.91	8,455.87	121.10	-81.01	302.81	8.05	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,559.00	50.65	176.29	8,475.93	144.68	-104.59	304.41	6.30	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,591.00	52.14	176.53	8,495.89	169.62	-129.55	305.98	4.69	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,622.00	55.75	177.35	8,514.14	194.59	-154.57	307.31	11.84	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,653.00	59.53	178.87	8,530.73	220.64	-180.73	308.17	12.88	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,685.00	62.17	176.55	8,546.31	248.45	-208.65	309.29	10.40	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,716.00	65.86	178.62	8,559.89	276.19	-236.49	310.46	13.33	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,747.00	70.08	178.94	8,571.52	304.73	-265.21	311.07	13.65	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,779.00	73.51	180.19	8,581.52	334.88	-295.60	311.30	11.34	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,810.00	76.85	180.70	8,589.44	364.54	-325.57	311.06	10.89	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,841.00	79.05	180.13	8,595.92	394.55	-355.88	310.84	7.32	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,873.00	80.90	179.57	8,601.49	425.78	-387.39	310.93	6.03	MWD	PATHFINDER ENERGY SE...					
11/26/2...	8,931.00	84.42	178.25	8,608.89	482.91	-444.90	312.02	6.48	MWD	PATHFINDER ENERGY SE...					
11/26/2...	9,025.00	86.09	177.08	8,616.67	576.16	-538.49	315.84	2.17	MWD	PATHFINDER ENERGY SE...					
11/26/2...	9,119.00	89.08	177.00	8,620.63	669.74	-632.27	320.69	3.18	MWD	PATHFINDER ENERGY SE...					
11/26/2...	9,213.00	89.43	176.98	8,621.85	763.41	-726.13	325.63	0.37	MWD	PATHFINDER ENERGY SE...					
11/26/2...	9,307.00	89.52	176.09	8,622.71	857.14	-819.96	331.31	0.95	MWD	PATHFINDER ENERGY SE...					
11/26/2...	9,401.00	88.72	176.64	8,624.16	950.89	-913.75	337.27	1.03	MWD	PATHFINDER ENERGY SE...					
11/26/2...	9,495.00	89.52	175.79	8,625.60	1,044.65	-1,007.54	343.47	1.24	MWD	PATHFINDER ENERGY SE...					
11/26/2...	9,589.00	88.46	176.14	8,627.26	1,138.44	-1,101.29	350.08	1.19	MWD	PATHFINDER ENERGY SE...					
11/26/2...	9,683.00	88.55	175.29	8,629.71	1,232.23	-1,194.99	357.10	0.91	MWD	PATHFINDER ENERGY SE...					
11/26/2...	9,777.00	88.11	176.16	8,632.45	1,326.02	-1,288.69	364.11	1.04	MWD	PATHFINDER ENERGY SE...					
11/26/2...	9,871.00	90.89	175.84	8,633.27	1,419.80	-1,382.45	370.66	2.98	MWD	PATHFINDER ENERGY SE...					
11/26/2...	9,965.00	91.45	175.82	8,631.35	1,513.60	-1,476.18	377.50	0.60	MWD	PATHFINDER ENERGY SE...					
11/26/2...	10,059.00	90.40	175.99	8,629.83	1,607.40	-1,569.93	384.21	1.13	MWD	PATHFINDER ENERGY SE...					
11/26/2...	10,153.00	89.43	176.35	8,629.97	1,701.17	-1,663.71	390.49	1.10	MWD	PATHFINDER ENERGY SE...					
11/26/2...	10,247.00	89.08	175.03	8,631.20	1,794.99	-1,757.44	397.55	1.45	MWD	PATHFINDER ENERGY SE...					
11/26/2...	10,341.00	89.87	174.10	8,632.06	1,888.91	-1,851.01	406.46	1.30	MWD	PATHFINDER ENERGY SE...					
11/26/2...	10,435.00	88.81	174.24	8,633.14	1,982.85	-1,944.52	416.00	1.14	MWD	PATHFINDER ENERGY SE...					
11/26/2...	10,529.00	87.85	173.92	8,635.88	2,076.76	-2,037.97	425.69	1.08	MWD	PATHFINDER ENERGY SE...					



Directional Survey

Well Name: WEISSBEIR 23-2H

Sub-Division DELAWARE BASIN WEST		Region SLOPE EAST		Field Name WEIHEN		County LEA		State/Province NM					
Surface Legal Location Sec. 14 T17S R37E		API/UWI 3002541716		Latitude (") 32° 49' 41.57" N		Longitude (") 103° 13' 3.966" W		Orig KB Elevation (ft) 3,755.30		Ground Elev MSL (ft) 3,728.80		KB - GL (ft) 26.50	
Survey Data													
Date	MD (ftKB)	Incl (")	Azm (")	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS ("/100ft)	Survey Tool	Survey Company			
11/26/2...	10,623.00	88.37	174.26	8,638.98	2,170.66	-2,131.42	435.37	0.66	MWD	PATHFINDER ENERGY SE...			
11/26/2...	10,718.00	89.25	174.76	8,640.95	2,265.57	-2,225.97	444.45	1.07	MWD	PATHFINDER ENERGY SE...			
11/26/2...	10,812.00	88.72	175.64	8,642.62	2,359.43	-2,319.62	452.32	1.09	MWD	PATHFINDER ENERGY SE...			
11/26/2...	10,906.00	87.41	175.72	8,645.79	2,453.20	-2,413.30	459.40	1.40	MWD	PATHFINDER ENERGY SE...			
11/26/2...	11,000.00	87.85	175.13	8,649.68	2,546.98	-2,506.92	466.89	0.78	MWD	PATHFINDER ENERGY SE...			
11/26/2...	11,094.00	89.08	175.38	8,652.20	2,640.81	-2,600.56	474.66	1.34	MWD	PATHFINDER ENERGY SE...			
11/26/2...	11,282.00	88.81	176.98	8,655.66	2,828.33	-2,788.10	487.18	0.86	MWD	PATHFINDER ENERGY SE...			
11/26/2...	11,376.00	88.11	177.98	8,658.18	2,921.91	-2,881.98	491.31	1.30	MWD	PATHFINDER ENERGY SE...			
11/26/2...	11,470.00	87.49	176.17	8,661.79	3,015.50	-2,975.78	496.11	2.03	MWD	PATHFINDER ENERGY SE...			
11/26/2...	11,564.00	87.76	175.63	8,665.69	3,109.23	-3,069.46	502.82	0.64	MWD	PATHFINDER ENERGY SE...			
11/26/2...	11,658.00	89.08	174.65	8,668.28	3,203.07	-3,163.08	510.78	1.75	MWD	PATHFINDER ENERGY SE...			
11/26/2...	11,752.00	88.72	173.84	8,670.09	3,296.99	-3,256.59	520.21	0.94	MWD	PATHFINDER ENERGY SE...			
11/26/2...	11,846.00	90.13	175.97	8,671.03	3,390.88	-3,350.21	528.55	2.72	MWD	PATHFINDER ENERGY SE...			
11/26/2...	11,940.00	89.34	174.78	8,671.46	3,484.74	-3,443.90	536.13	1.52	MWD	PATHFINDER ENERGY SE...			
11/26/2...	12,034.00	88.55	175.26	8,673.19	3,578.61	-3,537.53	544.29	0.98	MWD	PATHFINDER ENERGY SE...			
11/26/2...	12,128.00	88.29	174.88	8,675.79	3,672.46	-3,631.14	552.37	0.49	MWD	PATHFINDER ENERGY SE...			
11/26/2...	12,223.00	89.08	175.92	8,677.97	3,767.29	-3,725.81	559.98	1.37	MWD	PATHFINDER ENERGY SE...			
11/26/2...	12,317.00	89.08	175.50	8,679.48	3,861.11	-3,819.53	567.01	0.45	MWD	PATHFINDER ENERGY SE...			
11/26/2...	12,411.00	88.37	173.95	8,681.57	3,954.99	-3,913.11	575.65	1.81	MWD	PATHFINDER ENERGY SE...			
11/26/2...	12,504.00	88.90	173.94	8,683.78	4,047.93	-4,005.56	585.46	0.57	MWD	PATHFINDER ENERGY SE...			
11/26/2...	12,597.00	88.90	173.41	8,685.57	4,140.88	-4,097.98	595.70	0.57	MWD	PATHFINDER ENERGY SE...			
11/26/2...	12,690.00	87.76	171.88	8,688.28	4,233.83	-4,190.17	607.60	2.05	MWD	PATHFINDER ENERGY SE...			
11/26/2...	12,784.00	86.70	172.31	8,692.82	4,327.72	-4,283.17	620.52	1.22	MWD	PATHFINDER ENERGY SE...			
11/26/2...	12,972.00	87.41	171.60	8,702.48	4,515.47	-4,469.07	646.79	0.53	MWD	PATHFINDER ENERGY SE...			
11/26/2...	13,066.00	87.41	172.32	8,706.73	4,609.37	-4,562.05	659.92	0.77	MWD	PATHFINDER ENERGY SE...			
11/26/2...	13,161.00	87.67	173.51	8,710.81	4,704.27	-4,656.24	671.63	1.28	MWD	PATHFINDER ENERGY SE...			
11/26/2...	13,255.00	86.79	175.13	8,715.35	4,798.10	-4,749.66	680.92	1.96	MWD	PATHFINDER ENERGY SE...			
11/26/2...	13,349.00	86.88	176.04	8,720.54	4,891.80	-4,843.24	688.15	0.97	MWD	PATHFINDER ENERGY SE...			
11/26/2...	13,443.00	88.11	176.53	8,724.65	4,985.47	-4,936.95	694.23	1.41	MWD	PATHFINDER ENERGY SE...			
11/26/2...	13,537.00	91.19	176.97	8,725.22	5,079.17	-5,030.78	699.56	3.31	MWD	PATHFINDER ENERGY SE...			
11/26/2...	13,632.00	90.31	177.05	8,723.98	5,173.83	-5,125.65	704.52	0.93	MWD	PATHFINDER ENERGY SE...			
11/26/2...	13,715.00	90.31	177.05	8,723.53	5,256.54	-5,208.53	708.79	0.00	BIT	PATHFINDER ENERGY SE...			

Page 3/3

Report Printed: 9/30/2015